

C₅alkylcarbonylamino-C₁-C₅alkyl, C₁-C₅alkylcarbonyl-(C₁-C₅-alkyl)-amino-C₁-C₅alkyl, tri(C₁- or C₂-alkyl)silyl-C₁-C₅alkyl, phenyl, heteroaryl, phenyl-C₁-C₅alkyl, heteroaryl-C₁-C₅alkyl, phenoxy-C₁-C₅alkyl or heteroaryloxy-C₁-C₅alkyl, wherein the afore-mentioned aromatic rings may be substituted by halogen, nitro, cyano, amino, di(C₁-C₄alkyl)amino, hydroxy, methoxy, ethoxy, methylthio, ethylthio, formyl, acetyl, propionyl, carboxyl, C₁-C₅alkoxycarbonyl or by C₁- or C₂-haloalkyl;

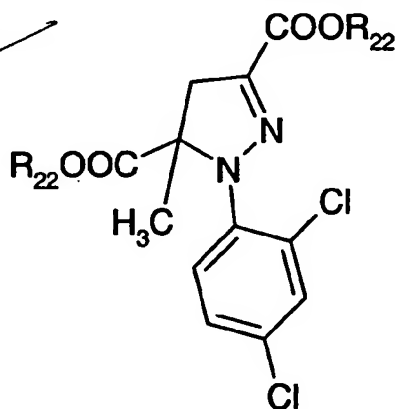
R₃₄, R₃₅ and R₃₆ are, in addition, C₁-C₁₀alkoxy, C₁-C₁₀haloalkoxy, C₁-C₅alkylamino, di(C₁-C₅-alkyl)amino, benzyloxy or phenoxy, wherein the aromatic rings of the last two substituents may be substituted by halogen, nitro, cyano, amino, dimethylamino, hydroxy, methoxy, ethoxy, methylthio, ethylthio, formyl, acetyl, propionyl, carboxyl, C₁-C₅alkoxycarbonyl or by C₁- or C₂-haloalkyl; and

R₃₇ is, in addition, C₁-C₁₀alkylcarbonyl,

or a salt or diastereoisomer of a compound of formula I, and

b) an amount, which is effective for antagonism of the herbicide, of a safener of formula IIa

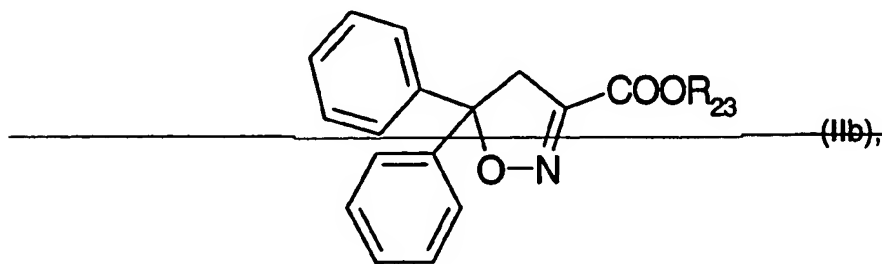
R₂₂ = ethyl.
a ✓



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wherein

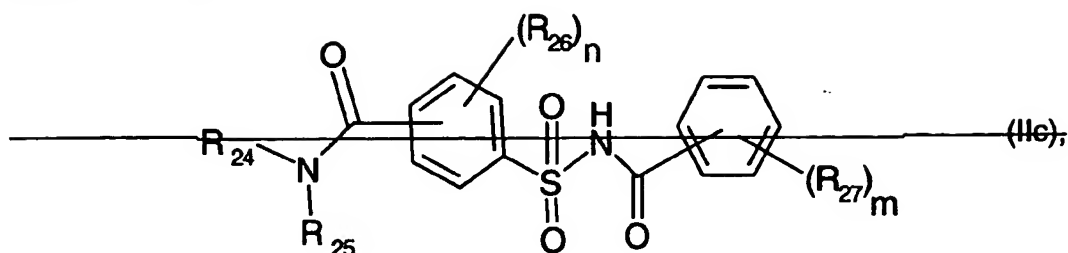
R₂₂ is hydrogen, or an alkali metal, alkaline earth metal, sulfonium or ammonium cation, or ethyl, or of formula IIb



wherein

R_{23} is hydrogen, or an alkali metal, alkaline earth metal, sulfonium or ammonium cation, or ethyl;

or of formula IIc



wherein

R_{24} and R_{25} are, each independently of the other, hydrogen, C_1 - C_6 alkyl, C_2 - C_6 alkenyl, C_2 - C_6 alkynyl or C_3 - C_6 cycloalkyl;

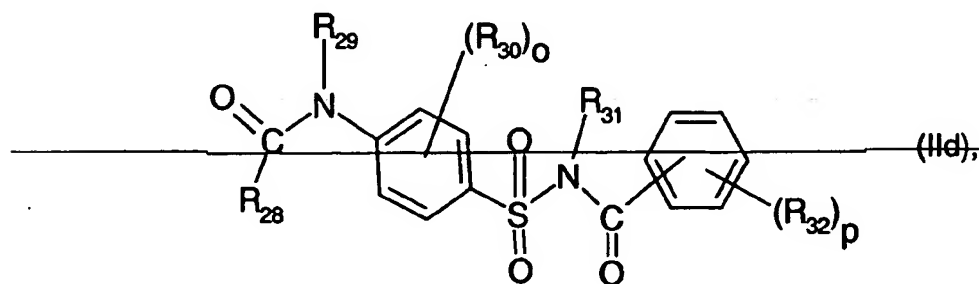
R_{26} is hydrogen, halogen, C_1 - C_4 alkyl, C_1 - C_6 haloalkyl or C_1 - C_6 haloalkoxy; or the radicals R_{26} are, each independently of the other(s), hydrogen, halogen, C_1 - C_4 alkyl, C_1 - C_6 haloalkyl or C_1 - C_6 haloalkoxy;

R_{27} is hydrogen, halogen, C_1 - C_4 alkyl, C_1 - C_4 haloalkyl, C_1 - C_4 alkoxy, C_1 - C_4 haloalkoxy, C_1 - C_4 alkylthio, C_1 - C_4 alkoxycarbonyl or nitro; or the radicals R_{27} are, each independently of the other, hydrogen, halogen, C_1 - C_4 alkyl, C_1 - C_4 haloalkyl, C_1 - C_4 alkoxy, C_1 - C_4 haloalkoxy, C_1 - C_4 alkylthio, C_1 - C_4 alkoxycarbonyl or nitro;

n is 0, 1, 2 or 3; and

m is 1 or 2;

or of formula IIc



wherein

R_{28} is hydrogen, C_1 - C_6 alkyl, C_1 - C_6 alkoxy, C_1 - C_6 alkylthio, C_3 - C_6 cycloalkyl, phenyl, phenyl- C_1 - C_6 alkyl or heteroaryl, wherein the afore-mentioned hydrocarbon radicals may be

substituted by halogen, cyano, nitro, amino, hydroxy, carboxyl, formyl, carbonamide or by sulfonamide;

R_{29} is hydrogen, C_1 - C_6 alkyl or C_1 - C_4 haloalkyl;

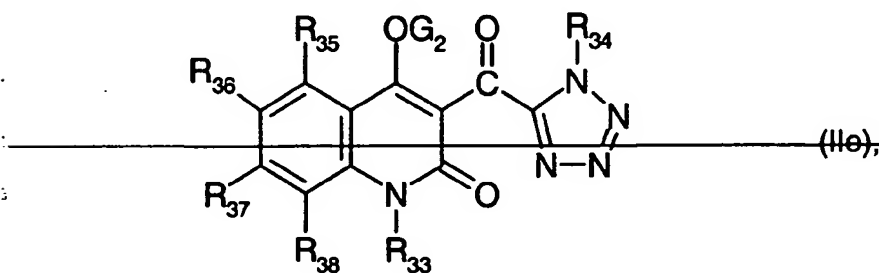
R_{30} is hydrogen, halogen, C_1 - C_4 alkyl, C_1 - C_4 haloalkyl, C_1 - C_4 alkoxy, C_1 - C_4 alkylthio, C_1 - C_4 alkylsulfonyl, cyano, nitro, formyl or carboxyl; or the radicals R_{30} are, each independently of the other, hydrogen, halogen, C_1 - C_4 alkyl, C_1 - C_4 haloalkyl, C_1 - C_4 alkoxy, C_1 - C_4 alkylthio, C_1 - C_4 alkylsulfonyl, cyano, nitro, formyl or carboxyl;

R_{31} is hydrogen, C_1 - C_6 alkyl or C_1 - C_4 haloalkyl;

R_{32} is hydrogen, halogen, C_1 - C_4 alkyl, C_1 - C_4 haloalkyl, C_1 - C_4 alkoxy, C_1 - C_4 alkylthio, C_1 - C_4 alkylsulfonyl, cyano, nitro, formyl or carboxyl; or the radicals R_{32} are, each independently of the other, hydrogen, halogen, C_1 - C_4 alkyl, C_1 - C_4 haloalkyl, C_1 - C_4 alkoxy, C_1 - C_4 alkylthio, C_1 - C_4 alkylsulfonyl, cyano, nitro, formyl or carboxyl; and

e and p are, each independently of the other, 0, 1 or 2,

or of formula IIe



wherein

G_2 is hydrogen, formyl, C_1 - C_6 alkylcarbonyl, C_2 - C_6 alkenylcarbonyl, C_2 - C_6 alkynylcarbonyl, C_1 - C_6 alkoxycarbonyl, (C_1 - C_6 alkylthio)carbonyl, C_3 - C_8 cycloalkylcarbonyl, phenyl- C_1 - C_6 alkylcarbonyl, phenylcarbonyl, C_1 - C_6 alkylsulfonyl, C_2 - C_6 alkenylsulfonyl or phenylsulfonyl, wherein the afore-mentioned hydrocarbon radicals may be substituted by halogen, cyano, nitro, amino, methoxy, ethoxy or by phenyl;

R_{33} is hydrogen, C_1 - C_6 alkyl, C_2 - C_6 alkenyl, C_2 - C_6 alkynyl, C_3 - C_8 cycloalkyl, formyl, C_1 - C_6 alkylcarbonyl, C_2 - C_6 alkenylcarbonyl, C_2 - C_6 alkynylcarbonyl, C_1 - C_6 alkoxycarbonyl, (C_1 - C_6 alkylthio)carbonyl, C_3 - C_8 cycloalkylcarbonyl, C_1 - C_6 alkylsulfonyl, C_2 - C_6 alkenylsulfonyl or phenylsulfonyl, wherein the afore-mentioned hydrocarbon radicals may be substituted by halogen, cyano, nitro, amino, methoxy, ethoxy or by phenyl;

R_{34} is hydrogen, C_1 - C_6 alkyl, C_2 - C_6 alkenyl, C_2 - C_6 alkynyl, C_3 - C_8 cycloalkyl, formyl, C_1 - C_6 alkylcarbonyl, C_2 - C_6 alkenylcarbonyl, C_2 - C_6 alkynylcarbonyl, C_1 - C_6 alkoxycarbonyl, (C_1 -

~~C₆alkylthio)carbonyl, C₃-C₈cycloalkylcarbonyl, C₁-C₆alkylsulfonyl, C₂-C₆alkenylsulfonyl or phenylsulfonyl, wherein the afore-mentioned hydrocarbon radicals may be substituted by halogen, cyano, nitro, amino, methoxy, ethoxy or by phenyl;~~

~~R₃₅, R₃₆, R₃₇ and R₃₈ are, each independently of the others, hydrogen, halogen, amino, C₁-C₃alkylamino, di(C₁-C₃alkyl)amino, hydroxy, cyano, nitro, formyl, carboxyl, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₁-C₆alkylcarbonyl, C₁-C₆alkoxycarbonyl, C₁-C₆alkyl, C₁-C₆haloalkyl, C₂-C₆alkenyl or C₂-C₆alkynyl; or~~

~~R₃₈ and R₃₃, together with the ring atoms to which they are bonded, form a five or six-membered saturated or unsaturated ring that contains up to 2 identical or different hetero atoms selected from the group oxygen, sulfur and nitrogen and that may be interrupted by a C(O)-radical.~~

Claim 2. (Currently Amended) A composition according to claim 1, which comprises as active ingredient a mixture of a) a herbicidally effective amount of a herbicide of formula I, wherein

R₁, R₃, R₄, R₅ and G are as defined in claim 1, and

b) an amount, which is effective for antagonism of the herbicide, of a safener of formula IIa, wherein

R₂₂ is as defined in claim 1 for formula IIa₁;

~~or of formula IIb, wherein~~

~~R₂₃ is as defined in claim 1 for formula IIb,~~

~~or of formula IIc, wherein~~

~~R₂₄ and R₂₅ are, each independently of the other, hydrogen, C₁-C₆alkyl, C₂-C₆alkenyl, C₂-C₆alkynyl or C₃-C₆cycloalkyl;~~

~~R₂₆ is halogen, C₁-C₄alkyl or C₁-C₄haloalkyl;~~

~~R₂₇ is halogen, C₁-C₄alkyl, C₁-C₄haloalkyl, C₁-C₄alkoxy, C₁-C₄alkylthio, C₁-C₄alkoxycarbonyl or nitro;~~

~~n is 0, 1, 2 or 3; and~~

~~m is 1 or 2.~~

Claim 3. (Original) A composition according to claim 1, wherein R₁ and R₃ in the compounds of formula I are, each independently of the other, ethyl, haloethyl, ethynyl, C₁- or C₂-alkoxy or C₁- or C₂-haloalkoxy.

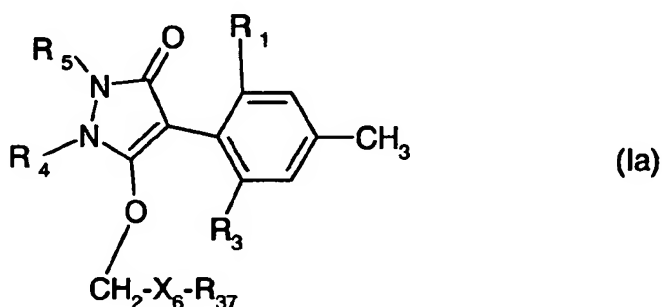
Claim 4. (Original) A composition according to claim 1, wherein R₄ and R₅ in the compounds of formula I together form a group Z₂ -CR₁₄(R₁₅)-CR₁₆(R₁₇)-O-CR₁₈(R₁₉)-CR₂₀(R₂₁)- (Z₂), wherein R₁₄, R₁₅, R₁₆, R₁₇, R₁₈, R₁₉, R₂₀ and R₂₁ are hydrogen.

Claim 5. (Original) A composition according to claim 1, wherein G in the compounds of formula I is hydrogen, -C(X₁)-R₃₀, -C(X₂)-X₃-R₃₁, -C(X₄)-NR₃₂(R₃₃), -S(O)₂-R₃₄, -P(X₅)R₃₅R₃₆, -CH₂-X₆-R₃₇ or an alkali metal, alkaline earth metal, sulfonium or ammonium cation; X₁, X₂, X₃, X₄, X₅ and X₆ are, each independently of the others, oxygen or sulfur; R₃₀, R₃₁, R₃₂, R₃₃, R₃₄, R₃₅, R₃₆ and R₃₇ are, each independently of the others, hydrogen, C₁-C₈alkyl, C₁-C₈haloalkyl, C₁-C₈cyanoalkyl, C₁-C₈nitroalkyl, C₁-C₈aminoalkyl, C₂-C₅alkenyl, C₂-C₅haloalkenyl, C₃-C₈cycloalkyl, C₁-C₅alkylamino-C₁-C₂alkyl, di(C₁-C₅alkyl)amino-C₁-C₂alkyl, C₃-C₇cycloalkyl-C₁-C₂alkyl, C₁-C₄alkoxy-C₁-C₄alkyl, C₂-C₄alkenyloxy-C₁-C₄alkyl, C₃-C₄alkynyloxy-C₁-C₄alkyl, C₁-C₄alkylthio-C₁-C₄alkyl, C₁-C₂alkylsulfoxy-C₁-C₂alkyl, C₁-C₂alkylsulfonyl-C₁-C₂alkyl, C₂-C₈alkylideneaminoxy-C₁-C₂alkyl, C₁-C₅alkylcarbonyl-C₁-C₂alkyl, C₁-C₅alkoxycarbonyl-C₁-C₂alkyl, C₁-C₅alkylamino-carbonyl-C₁-C₂alkyl, di(C₁-C₄alkyl)aminocarbonyl-C₁-C₂alkyl, C₁-C₅alkylcarbonylamino-C₁-C₂alkyl, C₁-C₂alkylcarbonyl-(C₁-C₃alkyl)-amino-C₁-C₂alkyl, tri(C₁- or C₂-alkyl)silyl-C₁-C₃-alkyl, phenyl, heteroaryl, phenyl-C₁-C₂alkyl, heteroaryl-C₁-C₂alkyl, phenoxy-C₁-C₂alkyl or heteroaryloxy-C₁-C₂alkyl; R₃₄, R₃₅ and R₃₆ are, in addition, C₁-C₆alkoxy, C₁-C₆haloalkoxy, C₁-C₃alkylamino, di(C₁-C₃alkyl)amino, benzyloxy or phenoxy, wherein the aromatic rings of the last two substituents may be substituted by halogen, nitro, cyano, amino, dimethylamino, hydroxy, methoxy, ethoxy, methylthio, ethylthio, formyl, acetyl, propionyl, carboxyl, C₁-C₅alkoxycarbonyl or by C₁- or C₂-haloalkyl; and R₃₇ is, in addition, C₁-C₈alkylcarbonyl.

Claim 6. (Original) A composition according to claim 5, wherein G is hydrogen, -C(X₁)-R₃₀, -C(X₂)-X₃-R₃₁, -C(X₄)-NR₃₂(R₃₃), -S(O)₂-R₃₄, -P(X₅)R₃₅R₃₆, -CH₂-X₆-R₃₇ or an alkali metal, alkaline earth metal, sulfonium or ammonium cation; X₁, X₂, X₃, X₄, X₅ and X₆ are, each

independently of the others, oxygen or sulfur; R_{30} , R_{31} , R_{32} , R_{33} , R_{34} , R_{35} , R_{36} and R_{37} are, each independently of the others, hydrogen, C_1 - C_8 alkyl, C_1 - C_8 haloalkyl, C_2 - C_5 alkenyl, C_2 - C_5 haloalkenyl, C_3 - C_8 -cycloalkyl, C_3 - C_7 cycloalkyl- C_1 - C_2 alkyl, C_1 - C_4 alkoxy- C_1 - C_4 alkyl, phenyl, heteroaryl, phenyl- C_1 - C_2 alkyl, heteroaryl- C_1 - C_2 alkyl, phenoxy- C_1 - C_2 alkyl or heteroaryloxy- C_1 - C_2 alkyl; R_{34} , R_{35} and R_{36} are, in addition, C_1 - C_6 alkoxy, C_1 - C_3 alkylamino or di(C_1 - C_3 alkyl)amino; and R_{37} is, in addition, C_1 - C_8 alkylcarbonyl.

Claim 7. (Original) A compound of formula Ia



wherein R_1 , R_3 , R_4 , R_5 , R_{37} and X_6 are as defined in claim 1.

Claim 8. (Currently Amended) A method of selectively controlling weeds and grasses in crops of useful plants, which comprises treating the useful plants, their seeds or seedlings or the crop area thereof with, simultaneously or separately, a) a herbicidally effective amount of a herbicide of formula I, b) an amount, which is effective for antagonism of the herbicide, of a safener of formula IIa and, optionally, c) an additive comprising an oil of vegetable origin or an alkylated derivative thereof, or a mineral oil or a mixture thereof.

Claim 9. (Currently Amended) A method according to claim 8, which comprises treating crops of useful plants or crop areas for crops of useful plants with from 0.001 to 2 kg/ha of a herbicide of formula I and an amount of from 0.001 to 0.5 kg/ha of a safener of formula IIa.

Claim 10. (Original) A method according to claim 8, wherein the crops of useful plants are cereals, maize and sorghum.

Claim 11. (Original) A composition according to claim 1, which also comprises, in addition to the formulation adjuvants, an oil additive in the form of a vegetable oil concentrate consisting of the 4 components (A) from 20 to 90 % by weight of an alkyl ester of a higher fatty acid (C_4-C_{22}), (B) from 4 to 40 % by weight of an anionic surfactant, (C) from 2 to 20 % by weight of a higher fatty acid ($C_{10}-C_{20}$), and (D) up to 140 % by weight, based on the total amount of components (A) to (C), of a hydrocarbon.

Claim 12. (Original) A composition according to claim 11, wherein (A) is a C_1-C_4 alkyl ester of a $C_{12}-C_{18}$ fatty acid, (B) is an anionic surfactant of the dodecylbenzylsulfonate type, (C) is a $C_{12}-C_{18}$ fatty acid, and (D) is an aromatic hydrocarbon.